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BANSHCHIKOV, V., Meditsinskaya Gazeta, 30 Jun 72, p 3

We must also eliminate the serious gap in the sexual education of young people. Scientifically substantiated psychosexology, which examines the problems of the relationship between sex and the psyche realistically, should be set against the Freudian and neo-Freudian concepts prevalent abroad.

There are also vast problems in psychohygienic and psychoprophylactic work among mature and elderly individuals. Rise in the general standard in the approach to the human psyche is a decisive condition of the success of psychohygienic measures.

The experience of our Polish colleagues attracts attention. Recently, they have regularly broadcast over television mass autogenic training sessions. These sessions are also important for the prevention of vascular diseases, primarily heart vessel and brain injuries.

Thus, problems of psychohygiene, psychoprophylaxis, and psychohygienic propaganda are urgent as never before.

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Publications

USSR

V. M. BANSHCHIKOV AND I. A. SHISHKINA (Editors)

Voprosy Kliniki Patogeneza i Terapii Psikhicheskikh Zabolevaniy (Clinical Picture, Pathogenesis, and Therapy of Mental Diseases), abstracts of papers read at a conference of Moscow psychiatrists and neurologists commemorating the 160th anniversary of the founding of Moscow Mental Hospital No 3, 25 September 1972, Moscow, 1972, 464 pp

Translation: Foreword

This collection contains abstracts of papers read at a scientific and practical conference sponsored by Moscow Municipal Mental Hospital No. 3. It was held at a significant time...to coincide with the outstanding event in the history of our people -- the 50th anniversary of the founding of the Union of Soviet Socialist Republics.

The achievements of the Soviet health system during this brief historic period are known to the entire world. They reflect the constant concern shown by the Soviet state for the health and welfare of the people of our country.

These days medical workers are taking an active part in a socialist competition now under way. Everywhere they are reviewing their accomplishments and discussing the most urgent matters relating to the protection of health and prevention and control of disease. They are outlining ways of dealing with 1/17

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V. M. BANShChIKOV and I. A. ShIShKINA, Voprosy Kliniki Patogeneza i Terapii Psikhicheskikh Zabolevaniy, 25 September 1972, 464 pp

and solving the problems presented by the 24th Congress of the Communist Party of the Soviet Union in the field of health care and medicine.

For the Soviet psychiatrists actively engaged in preventive work, the most urgent problems are those connected with the introduction of progressive principles of organizing psychiatric care and use of the best methods of diagnosing and treating mental disease.

The staff of one of the country's oldest mental hospitals, Moscow Mental Hospital No. 3 (the former Preobrazhenskaya Hospital for the Insane), which is carrying on the human traditions nurtured by the generations of progressive psychiatrists who worked within its walls, prepared for the anniversary with great seriousness. One of the results of such preparation was the abovementioned scientific and practical conference at which the hospital physicians shared their experience. The conference was also timely because it coincided with the completion of the 20-year stage in the "psychopharmacological" era in psychiatry. The radical changes that took place during these 20 years in organizing and providing psychiatric care become quite evident when viewed against the historical background of one of the oldest mental hospitals that recently marked its 160th anniversary. 2/17

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V. M. BANShChIKOV AND I. A. ShIShKINA, Voprosy Kliniki Tatogeneza i Terapii Psikhicheskikh Zabolevaniy, 25 September 1972, 464 pp

This collection includes the reports of prominent clinicians and many practicing physicians working in research organizations, psychiatric clinics, medical schools, and psychoneurological hospitals of Moscow and other cities in the RSFSR. It consists of eight sections devoted to various timely problems pertaining to the prevention, pathogenesis, symptoms, and treatment of mental diseases (schizophrenia, affective psychoses, senile psychoses, epilepsy, endogenous organic psychoses, chronic alcoholism, and "borderline" states).

Special sections are concerned with the history of the hospital and organization of psychiatric care (section I), laboratory and experimental studies (section VIIO, and casuistic observations (section VIII).

We hope that the proceedings of the conference will be of interest to the broad psychiatric community and of use to the reader.

Editors

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Soviet Inventions Illustrated, Section II Electrical, Derwen

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243259 MEASURING, THE ADHESION OF PARTICLES to a prepared electrode by imposing a powerful electrical field is effective by loses accuracy if the exact breakaway point cannot be observed. The proposed design offers observation by making the electrode transparent. The diagram shows the upper transparent electrode 1 carrying a transparent conducting coating 2, on the lower surface of which are deposited the particles 12, of which the breakaway force is to be determined; these are distributed not less than 2-3 diameters apart. The lower electrode 6, in net form, is replaced, with ring 7, after inserting the particles.

AUTHORS: Myazdrikov, O. A.; Nikolayev, O. S.; Puzanov, V. N.;

Bantikov, V. S.; Yekimova, N. F.

Leningradskiy Institut Aviatsionnogo Priborostroyeniya

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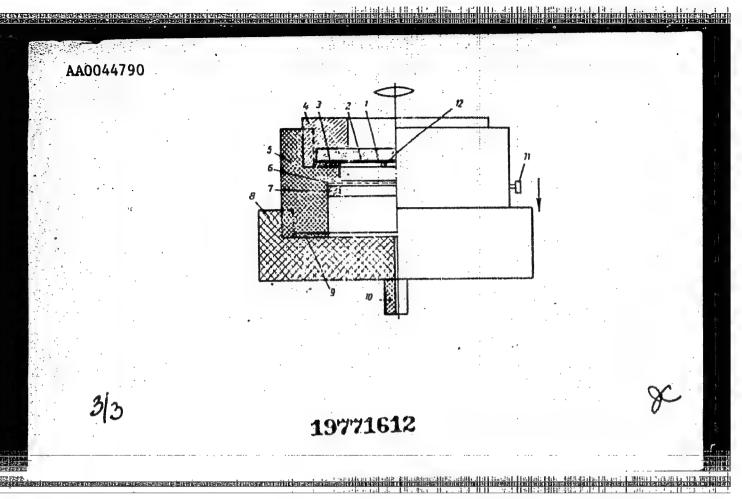
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sealing cap 8 replaced and the cavity filled with some gas at required pressure via nipple 10. The assembly is then placed under the microscope and a high voltage applied between terminal 11 of 6, and 4. Under the microscope the largest particles are selected for observation and their mean diameter estimated. As the specification shows mathematically, the adhesion force is a function of the square of the breakaway voltage and, inversely, the particle mean radius. These functions are observed by microscope, hence the force can be calculated.

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Bantsarevich, V. GüR 0482 Soviet Inventions Illustrated, Section II Electrical, Derwent, 241063 TEMPERATURE AND LUMINESCENCE METHOD OF LEAK DETECTION, for hollow components, can be applied as a test method for fluid-tightness by completely filling the component with a luminescent liquid, for example, a penetrant, sealing it up and exposing it to UV irradiation. Any leakage of the penetrant fluid, resulting in gathering of fluid on the outer surface, will be visually detected by luminescence. In order to provide excess internal pressure the component, after filling and scaling is placed in a heating chamber, for a given time at a given temperature, to cause volumetric expansion of the contained detector fluid. 20.3.67 as 1142371/25-28. I.L.LYAPKALO et alia. DNIEPROPETROVSK UNIVERSITY. (15.8.69) Bul 13/1.4.69 Class 42k. Int.Cl.G Oln.

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AUTHORS: Lyapkalo, I. L.; Bantsarevich, V. C.; Belyayev, N. M.; Nerovnya, I. V. Slipchenko, V. S.; Köbylkin; V. V.

Dnepropetrovskiy Gosudarstvennyy Universitet

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BAPTIZMANSKIY, V. I., BAKHMAN, N., DMITRIYEV, Yu. V., PROSVIRIN, K. S., SHEVELEV, V. V., YANKELEVICH, Ya. P., PODGORODETSKIY, A. A.

"The Problem of the Use of Coagulators During Deoxidation of Steel by Aluminum"

Moscow, Izv. Vuzov, Chernaya Metallurgiya, No 2, 1971, p 51-55.

Abstract: Analysis of the hydrodynamic and thermodynamic factors shows the possibility of using secondary large particles as coagulators for the products of deoxidization of steel with aluminum. The introduction of crushed lime, feldspar, and aluminum to the center mass during deoxidization in the process of siphon pouring of seven-ton ingots of type 3 kp steel was tested. Studies of rolled products produced from these ingots confirmed experimentally the possibility of reducing the level of contamination of the steel with stable nonmetallic inclusions by combined introduction of deoxidizers and coagulators.

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Entomology

USSR

MELIKADZE, L. D., MIKADZE, L. D., SHONIYA, D. I., GURGENIDZE, Z. I., BARABADZE, Sh. Sh., and AZKHAZAVA, I. I., Georgian Institute of Plance Protection

"Olfactometry to Evaluate Chemical Attractants"

Tbilisi, Soobshcheniya Akademii Nauk Gruzinskoy SSR, No 2, 1972, pp 473-476

Abstract: A description is given of a device used to test attractants of the European spruce bark beetle (Dendroctonus micaus) and other insects. Unlike other olfactometric methods, it can determine the optimum concentration of an attractant in the air. Air is fed through a thermostat—controlled heating coil and bubbler containing the substance tested. The temperature is controlled to keep the vapor pressure uniform. The air saturated to the same concentration by the vapor of the attractant (working mixture) enters the working part of the olfactometric unit. Both the control and the working parts of the unit are divided into three chambers. The working mixture after entering the olfactometer gradually fills the three chambers and through openings in the bottom of the third chamber diffuses along a platform where the insects are kept. An equal amount of pure air flows from the centrol part and moves along the platform in the opposite direction, creating a concentration 1/2

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MELIKADZE, L. D., et al., Soobshcheniya Akademii Nauk Gruzinskoy SSR, No 2, 1972, pp 473-476

gradient along the platform. Depending on the reaction of the insects to the substance, they crawl into the working or control part of the olfactometer. The optimum concentration is determined (a) from a curve showing the dilution of the working mixture at the outlet from the third chamber of the olfactometer and (b) from the dynamics of migration of the insects in time. The optimum concentration is that which attracts the most insects.

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UDC 538.566

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BARABANENKOV, Yu. N., KRAVISOV, Yu. A., RYTOV, S. M., and TATARSKIY, V. I., Radio Engineering Tristitute and Institute of Atmospheric Physics, both of the USSR Academy of Sciences, and the All-Union Scientific Research Institute of Physical-Optical Measurements

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"Status of the Theory of Wave Propagation in a Randomly-Inhomogeneous Medium"

Moscow, Uspekhi Fizicheskikh Nauk, Vol 102, No 1, 1970, pp 1-42

Abstract: Existing methods of calculation in the theory of wave propagation in randomly-inhomogeneous media and the limits to their applicability, along with recently introduced methods of examining the multiple scattering of waves, such as the Markovian approximation and the parabolic equation method, or the use of procedures first developed in quantum electrodynamics and now used to sum up series in perturbation theory are surveyed in this review of 542 literature references. Due to the scope of this field of investigation, only problems of bulk scattering in continuous media for free propagation are examined. The omitted areas thus include: reflection at randomly-uneven surfaces; scattering at discrete disseminates, such as artificial scattering materials, aerosols, raindrops, and snow in the atmosphere, or bubbles and fishes in the water; and the propagation of waves in randomly-inhomogeneous feeder cables.

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BARABANERKOV, YU.N. [Vsesoyuznyy nauchno-issledovatel'skiy institut fizikotekhnicheskikh i rediotelhnicheskikh izmereniy--All-Union Scientific-Research Institute Of Physicotechnical And Radiotechnical Messurecents]

"Applicability Limits Of The Equation For The Mean Field In A Discrete Scattering Medium With Scatterer Correlations Taken Into Account"

Izv.VUZ:Radiofizika, Vel XV, No 8, Aug 1972, pp 1220-1227

Abstract: The coherent scattering of scalar waves by a scattering medium consisting of correlated discrete scatterers and occupying the others volume is discussed. The paper considers the problem of when it is necessary in a Dyson's equation to take into account two-particle correlations of scatterers and when it is possible to neglect the three-particle ones. The answer lies in the fact that the permissible values of the non-ideal enscable of scatterers must be on the order of, or larger than, unity and generally speaking less than some maximum value. Furthermore, it is assumed that it is possible to replace the Dyson's equation by a Helmholtz equation with an effective wave number and to solve this Helmholtz equation in an approximation of geometrical optics, disregarding reflection and refraction of the waves at the boundary of the scatterers, the flection in comparison with the correlation radius of the scatterers, the 1/2

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BARABANERKOV, YU. N., 12v. VUZ: Rediofizika, Vol XV, No 8, Aug 1972, pp 1920-

extinction coefficient is calculated with two-particle correlations of scatterers taken into account. Corrections to the amplitude of the coherent scattering of a wave by a sphere are estimated. It is shown that conditions in which contributions of these corrections to the cross section of attenuation of "absorption" and scattering are negligibly small may be formulated in terms of the effective wave number and the parameter of the non-ideal encember of the scatters. 7 references. Received by editors, 24 May 1971; after further improvement, 20 March 1972.

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AUTHOR-(02)-BARABANOV, A.F., MAKSIMOV, L.A.

COUNTRY OF INFO--USSR

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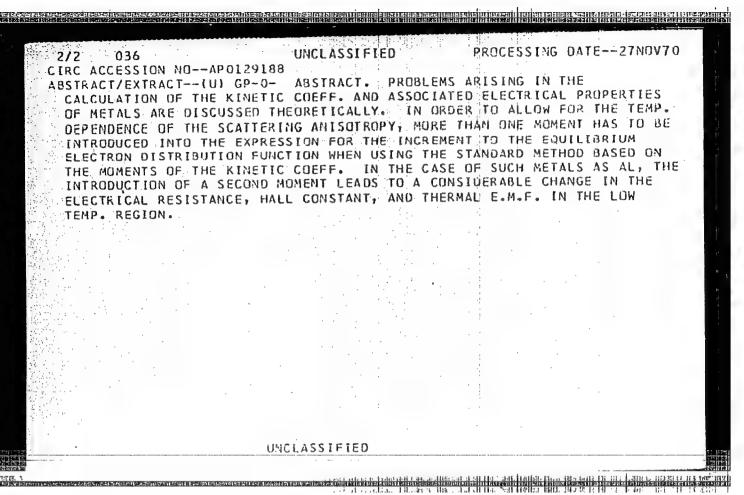
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Gyroscopic

USSR

UDC: 621.313.17

BARABANOV, V. A., Institute of Electrodynamics, Academy of Sciences of the Ukrainian SSR

"On the Possibility of Making a Gyroscope With Ball Rotor on a Magnetohydrodynamic Suspension"

Kiev, <u>Problemy Tekhnicheskoy Elektrodinamiki</u>. Resp. Mezhved. St. Elektromagnitnyye i Poluprovodnikovyye Ustroystva Preobrazovatel'noy Tekhniki, No 29, 1971, pp 160-162

Abstract: The paper describes one of the possible solutions of the problem of creating highly reliable precision instruments utilizing the principle of a three-degree asynchronous machine with appearical rotor. In practice, this method is realized in the device shown diagramatically in Fig. 1. The main carrier of the kinetic moment is steel ball rotor 1, which is located in cylindrical block 2 having a spherical recess. The ball is supported within the recess by a heavy conductive liquid which forms an envelope 3 separating the rotor surface from the recess during operation. Cavity 5 is filled with a gas or liquid. Block 2 is accommodated by a hollow in stator 4. The figure also shows angle-data transmitter 6.

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JISSR .

BARABANOV, V. A., Probl. Tekhn. Elektrodinam. Resp. Mezhved. Sb. Elektromagnit. i Poluprovodn. Ustroystva Preobrazovatel'n. Tekhn., No 29, 1971, pp 160-162

In operation, the rotating magnetic field set up by the stator interacts with the conductive liquid envelope, causing it to rotate. Thus the envelope can be considered as a second rotor. The motion of the liquid envelope is characterized not only by its velocity, but by the velocity distribution over its profile. Curve a in Fig. 2 represents such a distribution for one of the sections of the envelope (AA in Fig. 1); n is the direction of the normal, and v is velocity; numbers correspond to Fig. 1. Curve b in Fig. 2 shows the velocity distribution for a nonconductive, nonmagnetic liquid, in which case dv/dn, and hence the friction in the suspension is considerably greater. Thus a device of this type has considerable design advantages resulting from more economic solution of the problem of eliminating frection. Two figures, bibliography of two titles.

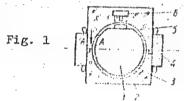


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AUTHOR-(04)-DAVYDOVA, S., BARABANOV, V.A., DOBROVOLSKAYA, N.V., PLATE,

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SUBJECT AREAS--CHEMISTRY

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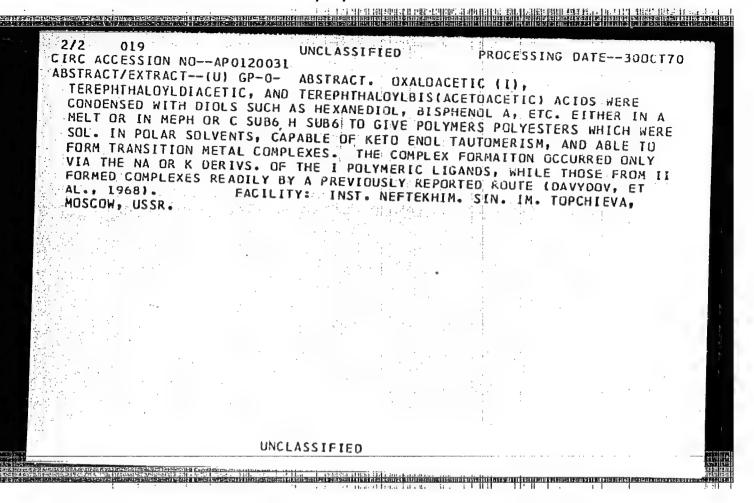
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CIRC ACCESSION NO--APO120031

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· · · · · · · · · · · · · · · · · · ·	To assess the effect of test temperature upon local characteristics of the energy of destruction, bending tests were conducted on specimens of fine-grain, homogeneous & x & x 40 mm graphits. The graphitide was mechanically practically isotropic. The intensity of the elastic deformation energy release (the destruction ductility) was determined within the temperature range 20° to 2000° C. A lateral crack was simulated in each specimen by incision with a fret saw and tapering with a razor blade. The experiment was conducted on a test machine equipped with a low-lag resistance furnace. The high-temperature tests were conducted in an argon atmosphere. In the first stage of operation, at 20° C, the relationship of destruction ductility G to the relative incision size c/d was determined. More than 90 specimens were tested under conditions of	Udovskiy, A. L., N. O. Gusman, and V. N. Barabanov. <u>Effect of test</u> temperature on the energy of destruction of graphite. Problemy prochaositan. 5, 1972, 83-84,	In the coefficient of temperature conductivity at $T_0 \approx 293^\circ K$; $r \cdot is$ the heating duration, and b is the temperature rise rate on the surface of the carrying portion) permits a relationship to be established between F_0^* and θ_{bend} (the bending strength of the asbetextolite sheet). The required initial litickness of the protective covering can be determined using this relationship and taking the aerodynamic heating conditions into account.	$K_{2}(y) = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + 1$
	of test temperature upon local truction, bending tests were conducted neous & x & x 40 mm graphite. The ly isotrepic. The Antensity of the (the destruction ductility) was determined 2000°C. A lateral crack was from with a fret saw and tapering with a conducted on a test machine equipped The high-temperature tests were In the first stage of operation, at 20°C. In the first stage of operation size c/d chmens were tested under conditions of characteristics.	and ruction 5.	a 293° K, re is rate on the surface sestablished asbotextolite sheet) ering can be determined heating conditions	

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UDC 629.12.011.753:539.4.012.2

BARABANOV, N.V., NOVIKOV, V.V.

"Special Features of Stress Distribution in the Vicinity of Stern Doors and Other Openings in the Ship Hull"

Leningrad, Sudostroyeniye, No 1, 1971, pp 12-14

Abstract: The article deals with the determination of the maximum stresses in the vicinity of the stern doors and other hull openings on the basis of the concentration coefficient, and with selection of the optimal forms of rounding. 5 figures, 1 table. 3 bibliographic entries.

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USSR-

UDC: 669.71.472



FORSBLOM, G. V., SEMENOV, V. S., SMORODINOV, A. N., PARAMONOV, S. A., BARABANOV, P. S.

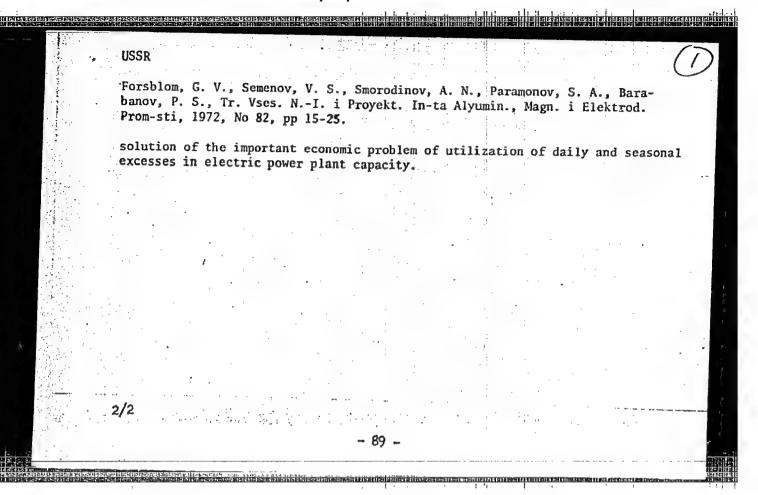
"Artificial Cooling as a Method of Intensification of the Operation of Aluminum Electrolyzers"

Tr. Vses. N.-I. i Proyekt. In-ta Alyumin., Magn. i Elektrod. Prom-sti [Works of All-Union Scientific Research and Planning Institute for the Aluminum, Magnesium and Electrode Industry], 1972, No 82, pp 15-25 (Translated from Referativnyy Zhurnal Metallurgiya, No 8, 1973, Abstract No 8G169, by G. Svodtseva).

Translation: Tests were performed at one plant of a group of electrolyzers, equipped with various artificial cooling systems. The effectiveness of the cooling was estimated on the basis of full thermal and energy balances. The maximum increase in thermal losses amounted to 50-55,000 watts. The increase in yield per current in cooled electrolyzers was facilitated by thicker and more constant linings. The transfer of metal in cooled electrolyzers was 1.5-2 cm less than in ordinary electrolyzers. The mean parameters of the technological mode and data on the yield per current and consumption of electric power are presented. The use of a forced electrolyzer can facilitate the

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Acc. Nr: APOLOGO46

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Ref. Code: 1/R0307

PRIMARY SOURCE: Vestnik Leningradskogo Universiteta, No 6,

Geologiya, Geografiya, 1970, Nr / , pp64-81

V. F. Barabanov

To geochemistry of follram

On the basis of generalization of numerous personal investigations in the field of mineralogy and geochemistry of wolframite ore deposits with employment of possible literature are considered some features of chemistry and geochemistry of wolframites, its abundance in nature, forms of transportation of its compounds and conditions of forming the most important endogenic wolframites. The dependence of mineral composition of wolframite are deposits upon chemical composition of wall rocks is shown.

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USSR

UDC 547.26'118

BARABANOV, V. I., SAZONOVA, Z. Ya., MOLODYKH, Zh. V. Kazan Veterinary
Institute imeni N. E. Bauman

"Synthesis of Halogenated Phosphorylated Acetals of Chloral and Bromal"

Leningrad, Zhurnal Obshchei Khimii, Vcl 40, No 6, Jun 70, pp 1260-1262

Abstract: Biologically highly active esters (I) were obtained from the reaction of halogen-substituted hemiacetals of chloral and bromal with dipropyl chlorophosphite. I were prepared by mixing 0.1 g-mole of hemiacetal and 0.1 g-mole triethylamine in diethyl ether, cooling the mixture, and adding dropwise dipropyl chlorophosphite. Physical data for many such compounds are given in tabular form.

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USSR

UDC: 542.91+661.718.1+661.731

BARABANOV, V. I., SAZANOVA, Z. Ya., and KAUSHANER, V. S., Kazan' State Veterinary Institute imeni N. E. Bauman

"Biologically Active Amides of Trichloroacetic and Dimethylthiophosphoric Acids"

Leningrad, Zhurnal Obshchey Khimii, Vol 40 (102), No 11, Nov 70, pp 2464-2466

Abstract: A series of amides of trichloroacetic (I-IVO (I -- trichloroacetyle-thylenamide, II -- trichloroacetylpiperidylamide, III -- trichloroacetyldiethylamide, IV -- trichloroacetylbutylamide) and dimethylthiophosphoric acids (V-IX) (V -- ethylenamide, VI -- piperidylamide, VII -- mothyl amide, VIII -- diethyl amide, IX -- butyl amide of dimethylthiophosphoric acid) were synthesized by interacting the corresponding acid chlorides with ethylenimine, piperidine, methyl amine, diethyl amine and butyl amine in ether in the presence of triethyl amine. In the reaction with methyl amine and butyl amine, the individual product was isolated after action of the acid chloride, and another acid chloride was then reacted with the remaining hydrogen atom. The result was mixed amides of trichloroacetic and dimethylthiophosphoric acids (Xi, XIII)

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USSR

BARABANOV, V. I., et al, Zhurnal Obshchey Khimii, Vol 40 (102), No 11, Nov 70, pp 2464-2466

(XI -- N-methyltrichloroacetoamidodimethylthiophosphate, XIII -- N-butyltrichloroacetoamidodimethylthiophosphate). Also synthesized were N-butylbis(trichloroaceto)amide (X), N-methyl-N-dipropylphosphite-amidodimethylthiophosphate (XII) and N-butyl-N-dipropyl-phosphite-amidodimethylthiophosphate (XIV). The synthesized amides of dimethylthiophosphoric acid were reacted with chloral to produce N-alkyl-N-α-hydroxy(β,β,β-trichloroethyl)-amides of dimethylthiophosphoric acid (XVI, XVII). N-Butyl-(d-hydroxy-β,β,β-trichloroethyl)trichloroacetoamide CC1₃CON/CHOHCC1₃-7C₁H₉ (XV) was synthesized by interacting (IV) with chloral. It was found that compounds (I) and (V) may be used for sexual sterilization of flies, and that compounds (II) and (VI) are antihelminthic. The products of interaction of amides with chloral have insecticidal properties equal to those of chlorophos, but they are considerably more toxic.

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USSR

UDC: 661.66+677

DERGUNOV, N. N., FROLOV, V. I., RIPP, N. Ye., SOSEDOV, V. P., BARABANOV, V. N.

"Toughening of Carbon Fiber Under Cyclic Loading"

Moscow, Doklady Akademii Nauk SSSR, Vol 210, No 1, 1 May 73, pp 70-71

Abstract: It was found that carbon fibers obtained by heat treating polyacrylonitrile filaments are toughened by cyclic stressing. The maximum toughening effect is observed when the maximum stress in a cycle is 60% of the ultimate strength of the fiber and 1000 cycles are used. The results are attributed to localized plastic deformation with resultant stress relaxation, as well as the crushing of fibrils. Increasing the number of stress cycles to 10,000 and the maximum stress in a cycle to 80% of the ultimate strength of a fiber brings the toughness of carbon filaments back to the original level. This is explained by an increase in cracks and pores.

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USSR

WC 539.61.620.171546.26-162

VOLKOV, G. M., BARABANOV, V. H., VIRGIL'YEV, YU. S., ZAKHAROVA, YE. H., and LEONT'YEV, YE. A.

"The Influence of Crystallite Size Upon the Strength of Coal-Graphite Materials"

Kiev, Problemy Prochnosti, No 1, Jan 72, pp 113-115

Abstract: The influence of the nuclear and electron structure of a graphite crystallite upon the mechanics of its breakdown is studied. Use is made of molecular diagrams of some compounds of the homologic sories of aromatic hydrocarbons, obtained by Pulman via wave-mechanics calculations by the method of molecular orbits. The influence of the size of graphite crystals upon the strength of carbon pyroceramic material was demonstrated. The experimental data were compared with results of structural research by optical-microscope and electron-microscope methods. Three figures, 4 references.

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- 63 -

USSR-

UDC 539.61:620.17:546.26

DERGUNOV, N. N., ZAKHAROVA, Ye. N., and VOLKOV, G. M., BARABANOV KALUGIN, V. I., Moscow

"The Effect of the Structure of Graphite on Its Strength"

Kiev, Problemy Prochnosti, No 12, Dec 72, pp 65-67

Abstract: The mechanical strength of artificial graphites depends not only on the dispersed structure of the material, but also on its crystalline and supermolecular structure, which is the secondary structure developed as a result of different arrangement of crystallites. The effect of artificial defects of supermolecular structure on mechanical strength of pyrographite and its bonding strength is discussed by reference to diagrams and photomicrographs of its polished surface. The effect of precipitation strengthening of carbonic material as a result of decreased concentration effect of supermolecular structural defects was used for the development of a new class of carbon materials, the carbonic Pyroceram. The characteristics of the USB-15 Pyroceram are presented. Five illustrations, eight bibliographic references.

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UDC 539.21

ZAYTSEV, G. G., BARABANOV, V. N., and DEYEV, A. N., Moscow

"Study of the Elastic Properties of Carbon Materials During Heat Treatment"

Kiev, Problemy prochnosti, No 1, Jan 71, pp 110-113

Abstract: A study was made of a broad class of carbon formations used in the production of various types of artificial graphite. Heat-treated (annealed) carbon materials produced from two types of petroleum coke were studied. The method of study included isothermal holding at 1250, 1400, 1700, 2000, and 2500°C. The dependences of the change in the modulus of elasticity of the compositions during this subsequent heat treatment are presented. The relaxation times, values of activation energy, and changes in modulus of elasticity were determined during the isothermal holding. The concept of the dipoles of carbon atoms in various energy states is introduced. It is demonstrated that the activation energy for a change in modulus of elasticity during heat treatment can be explained as the energy of certain dipole-dipole transistions in the carbon structure.

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BARABANOV, V. P., TSENTOVSKIY, V. M., TRET'YAKOVA, A. YA., ZAGIBULLINA, D. SH., KHARRASOVA, F. M., ERRE, E. A., and RAKHIMOVA, G. I., Kazan Chemical Technological Institute imeni S. N. Kirova

"Ionization Constants of Alkyl(aryl)phosphonic and Arylphosphonous Acids in Acetone"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), Vyp 11, 1972, pp 2431-2434

Abstract: The influence of the nature of the substitution groups on the ionization constants was determined for the title compounds. The pK was determined in acetone from the potentiometric titration curve. The dehavior of phosphinic and phosphonic acids in acetone is different from that in water. Compounds having two different pK values for the loss of two different protons in water show only one pK in acetone and it is much higher than either of the Pk in the water environment. The Pk increases in the

series: p-ClC₆H₄ < C₆H₅, p-CH₂C₆H₄ < Et < p-CH₃OC₆H₄. The Pk_a in acetone may be calculated from the standard pK_a by the following formula:

1/1 $pK = pK_{cr.} \pm \frac{E_{1/s} - E_{1/s} cr.}{0.059}$

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USSR

UDC 546.9 + 541.124.7

BARABANOV, V. P., TSENTOVSKIY, V. M., TRET'YAKOVA, A. YA., KHARRASOV F. M., and BREYENKOVA, V., Kazan' Chemical-Technological Institute Imeni S. M. Kirov

"Ionization Constants of Some Arylphosphonic, Aryltrichloromethylphosphinic, and Arylphosphonous Acids in Dimethylformamide and Acetone"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 5, May 73, pp 1147-1150

Abstract: Thermodynamic ionization constants for some aryl(alkyl)phosphonic and arylphosphinic acids in dimethylformamide at 25° were determined by the potentiometric method. It was established that the substituent at the phosphorus atom has a strong effect on the ionization of the acids. In connection with a change in electronegativity of the substituent, ethylphosphonic acid is weaker than the phenylphosphonic acid. Introduction of a chlorine atom into the para position of the phenyl group increases the proton donating ability of the compound. Replacing one hydroxyl group by trichloromethyl radical increases the acid strength by almost a 4 fold order.

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Acc. Nr: AP0052440 Abstracting Service: CHEMICAL ABST. 5-70

Ref. Code:

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101175c Structure of the macromolecular chain of α-chloroacrylic acid copolymers. Barabanov, V. P.; Tsentovskii, V. M. (Kazan. Khim.-Tekhnol. Inst. im. Kirova, Kazan, USSR). Vysokomol. Soedin., Ser. B 1970, 12(1), 92-3 (Russ), α-Chloroacrylic acid (I), poly(α-chloroacrylic acid), and I-Me methacrylate copolymer (II) were titrated in HCONMe₂ with a Et₄NOH soln. in MeOH. The potentiometric titrn. curve had 2 inflections corresponding to 5, 10, and 15% I content in II, suggesting that the copolymn. of I with Me methacrylate gave polymeric units having the properties of dicarboxylic acids. CKJR

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UDC 547,242

TSENTOVSKIY, V. M., BARABANOV, V. P., KHARRASAVA, F. M., and BUSYGINA, T. A., Kazan' Institute of Chemical Technology ineni S. M. Kirov

"Study of Ionic Association of Onium Salts in Solutions. IV. Conductance" of Tetraalkyl(aryl)phosphonium Halides in Acetone, Dimethylformamide and Nitromethane"

Leningrad, Zhurnal Obshchey Khimii, Vol 41, No 8, Aug 71, pp 1659-1662

Abstract: The article describes results of a study of the conductance of tetraphenylphosphonium chloride, bromide and iodide and tetrabutyl-, tetraanyl- and tetrahexylphosphonium bromides in acetone, nitromethane and dimethylformamide. It is shown that the association capacity of ions is determined by the nature of the hydrocarbon radical of the phosphonium cation, as well as the nature of the anion, and is retained in the transition from acetone to nitromethane and dimethylformamide, despite the decrease in size of the solvated ion.

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UDC: 547.242

TSENTOVSKIY, V.M., BARABANOV, V.P., CHERNOKAL'SKIY, B.D., BAYRAMOV, R.B., and KAMAY, Gil'm, Kazan' Chemical Technological institute imeni S.M. Kirov, Kazan, Ministry of Higher and Secondary Specialized Education RSFSR

"Study of Ionic Association of Onium Salts in Solution. I. Conductivity of Tetraphenylarsonium Iodide in Acetone and Propyl Alcohol"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 4, Apr 70, pp 831-833

Abstract: The authors studied the conductivity of tetraphenylarsonium iodide in acetone at temperatures ranging from 20 to 40°, as well as in propyl alcohol at 250. The form of the concentration dependence of the equivalent conductivity in acetone is complex. There is an increase in conductivity with an increase in concentration from 0.39. 10-4 to 3.12.10-4 m., then a decrease in conductivity with a further increase in concentration. In propyl alcohol the dependence of λ on vc is expressed by a straight line. The conductivity of the salt in

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TSENTOVSKIY, V. M., et al., Zhurnal Obshchey Khimii, Vol 40, No 4, Apr 70, pp 831-833

acetone increases with a rise in temperature, despite the fact that permittivity declines. It is suggested that with dilution in acetone there is a change in the structure of the particles participating in the transfer of electricity.

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UDC 681.3

KUZ'MIN, I. V., BARABASH, I. P.

"Mathematical Model of the Structure of a Logic Device"

Tekhn. Kibernetika, Vyp. 8, [Engineering Cybernetics, No 8--Collection of Works], Kiev, 1970, pp 47-54, (Translated from Referativnyy Zhurnal Kibernetika, No 5, 1971, Abstract No. 5V598 by V. Mikheyev).

Translation: The following are proven:

Theorem 1. Suppose function $F(\omega_1, \omega_2, \ldots, \omega_n)$ $(N \ge 2)^k$ depends significantly on all N arguments. Then there are functions $\psi_i(x_1, x_2, \ldots, x_k, y_1, y_2, \ldots, y_m)$ $(1 \le i < 2^k)$ and $(if N > 2^h)$ $x_j(x_1, x_2, \ldots, x_k)$ $(2^k + 1 \le i < N)$ such that in a logic algebra function $f(x_k, y_m)$ can be represented in the form:

 $f(0, 0, ..., 0, y_1, y_2, ..., y_m) = F\{\psi_1 \{x_1, x_2, ..., x_k, ..., x_k, ..., x_k, y_m \}, ..., \psi_k \{x_1, x_2, ..., x_k, f(1,1, ..., 1, y_1, y_2, ..., y_m)\}, x_k \{x_1, x_2, ..., x_k\}, ..., x_N \{x_1, x_2, ..., x_k\}\}.$

Theorem 2. If function $F(\omega_1, \omega_2, \ldots, \omega_N)$ depends significantly on all its arguments and takes on its true (or false) value with a unique set of these arguments, there are functions ψ_i , $(x_1, x_2, \ldots, x_k, y_1, y_2, \ldots, y_m)$ 1/2

(1 by	$\leq i \leq 2^k$), an expansio	such that any l	ogic algebra funct	ion $f(x_k, y_m)$ ca	n be represented	
		x_k , $f(0, 0,, x_k)$, $f(1,0,, x_k)$		$\psi_1[x_1, x_2, \dots, \psi_2[x_1, x_2, \dots]]$		
		$\dots, x_{k_k} L(1,1,\ldots)$	$y_1, y_1, y_2, \dots, y_m)$	L (**) **		
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and	this expans	sion is unique.		÷ ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		
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621.382.2:539.1.074 UDC.

LITOVCHENKO, P. G., GONCHAR, V. G., BARABASH Ling, DEMIDOVA,

"Some Special Semiconductor Detector Types for Studying Muclean Reactions"

Kiev, Poluprovodnikovava tekhnika i mikroelektronika, No. 4, 1970, pp 122-129

Abstract: Noting that recent articles have been devoted to nuclear reaction detectors made of silicon compensated with lithium and having a sensitivity region thickness of up to 6 mm, the authors describe their experiments using charged particles of higher energy which entered the silicon to a depth of several millimeters. The detectors used by the authors had a resolution of 50-60 key for alpha particles of Am243 with an energy of 5.8 Mev. The better detector specimens with an area of about 2 cm² had a resolution of 30 kev. The plot of the Am243 alpha particle spectrum detected by a No. 52 specimen is shown. To prepare detectors of this and other types, the authors used the brand EKD-1000 of silicon, which is obtained from the noncrucible zone of the melt and contains less than 2.1016 oxygen atoms per cc, with the lifetime of

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200310004-9"

LITOVCHENKO, P. G., et al., Poluprovodníkovaya tekhníka i mikroelektronika, NG 4, 1970, pp 122-129

minority carriers varying from 200-400 µs and a dislocation concentration of less than 5·104 cm⁻². A diagram of the cross-section construction of the planar detector as well as the diagrams of the ring and "hat" types is

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UEC 621.382.2:539.1.074

BARABASH, L. I. and GONCHAR, V. G.

"dE/dx Detectors of Silicon Compensated by Lithium"

Kiev, Poluprovodnikovaya tekhnika i mikroelektronika, No. 4, 1970, pp 69-77

Abstract: A discussion of semiconductor detectors used in the study of nuclear reactions by the so-called dE/dx X E method is given. The authors describe experiments for making dE/dx detectors from silicon compensated by lithium. The first results they obtained from detectors made by this method are described in an earlier article they published (Radiatsionnava fizika nemetallicheskikh kristallov -- Radiation Physics of Monmetallic Crystals -- published by "Naukovaya dumka," Kiev, 1967). The present paper gives further experimental results in the use of the detectors for the study of nuclear reactions. The experiments used detectors made of p-type silicon with a specific resistance of 1000 ohm.cm, a disabout 200 µs, and an oxygen concentration of about 5.1016 cm⁻². A diagram showing the construction of the dE/dx detector is given and its volt-ampere characteristics are plotted. The results show that such detectors can be successfully used for studying nuclear effects.

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UDC: 53.07/.08+53.001.5

BARABASH, L. Z., KRYZHANOVSKIY, O. I., LEBEDEV, P. I.

"A Device for Feeding the Deflecting Plates of a Ring Accelerator"

USSR Author's Certificate No 307542, Division H, filed 31 Mar 70, published 5 Aug 71 (from RZh-Fizika, No 4, Apr 72, Abstract No 4A516 P)

Translation: Rapid discharge of the deflecting voltage from the plates of an electrostatic inflector is extensively used for single-revolution injection in cyclic accelerators. An impulse thyratron is ordinarily used for discharging the inflector capacitance. In the initial part of the acceleration period, the deflection voltage across the inflector must be held close to the zero level. Ordinarily for this purpose the commutating thyratron is artificially maintained in the ignited conductive state through the entire acceleration period. This mode considerably cuts down the life of the thyratron and reduces the reliability of the injection system. This invention proposes a method of eliminating this disadvantage. An electronic switch is added to the primary circuit of the high-voltage rectifier of the inflector supply system to disconnect the rectifier supply immediately after voltage discharge across the inflector. Throughout the

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BARABASH, L. Z. et al., USSR Author's Certificate No 307542

entire process of rectifier disconnection, the ignited state of the commutating thyratron is maintained by a low-voltage RC circuit connected through a decoupling diode. L. N. Kazanskiy.

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UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-EXPERIMENTAL STUDY OF THE WIDTH OF THE NEAR ANODE LAYER IN A
KNUDSEN SYSTEM FOR A THERMIONIC ENERGY CONVERTER -UAUTHUR-(05)-BABANIN, V.I., BARABASH, M.B., GAIDO, G.K., DUNAYEV, YU.A.,
KRAVINSKIY, YU.G.
CGUNTRY OF INFO-USSR

SOURCE--ZH. TEKH. FIZ. 1970, 40(4), 833-8

DATE PUBLISHED ----- 70

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SUBJECT AREAS--PHYSICS

TUPIC TAGS--ELECTRODE PROPERTY, THERMIONIC ENERGY CONVERSION, VOLT AMPERE CHARACTERISTIC, BARIUM, CESIUM, TRANSVERSE MAGNETIC FIELD

CONTROL MARKING--NO RESTRICTIONS

DGCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1196

STEP NO--UR/0057/70/040/004/0833/0838

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CIRC ACCESSION NG-APO124850

PROCESSING DATE--300CT70 UNCLASSIFIED -2/2 031 CIRC ACCESSION NU--APO124850 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE WIDTH OF THE NEAR ANODE LAYER IN A THERMICNIC ENERGY CONVERTER FILLED WITH BAICS IN A TRANSVERSE MAGNETIC FIELD WAS INVESTIGATED EXPTL. VOLT AMPERE (V, A) CHARACTERISTICS ARE SHOWN FOR CATHODE, BA, AND CS TEMPS. OF 1893, 936, AND 373 DEGREESK, RESP. A SMALL CURRENT INCREASE IN THE SATN. REGION IS EXPLAINED BY WIDENING OF THE NEAR ANODE LAYER. THE VALUES OF THIS WIDTH CALCD. BY V. I. KUZNETSOV, ET AL. (1970) WERE CONFIRMED EXPTL. BY ANAL. THE COMPENSATION DEGREE MAY BE DETD. IF OF THE V.A CHARACTERISTICS. THE WIDENING OF THE NEAR ANODE LAYER IS TAKEN INTO ACCOUNT. 4 7 1 A 5 5 7 T T # TS

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200310004-9"

UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--EXPERIMENTAL STUDY OF THE EFFECT OF A TRANSVERSE MAGNETIC FIELD ON
THE VOLT AMPERE CHARACTERISTICS OF THE THERMIONIC CONVERTER IN A KNUDSEN
AUTHOR-(05)-BABANIN, V.I., BARABASH, M.B., GAYDO, G.K., DUNAYEV, YU.A.,
KRAVINSKIY, YU.G.
COUNTRY OF INFO--USSR

SOURCE-ZH. TEKH. FIZ. 1970, 40(3), 561-6.

DATE PUBLISHED ---- 70

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SUBJECT AREAS--ENERGY CONVERSION (NON-PROPULSIVE), PHYSICS

TOPIC TAGS--VOLT AMPERE CHARACTERISTIC, CATHODE, ANDDE, BARIUM, CESIUM, MAGNETIC FIELD EFFECT, THERMIONIC ENERGY CONVERSION

CONTROL MARKING--NO RESTRICTIONS

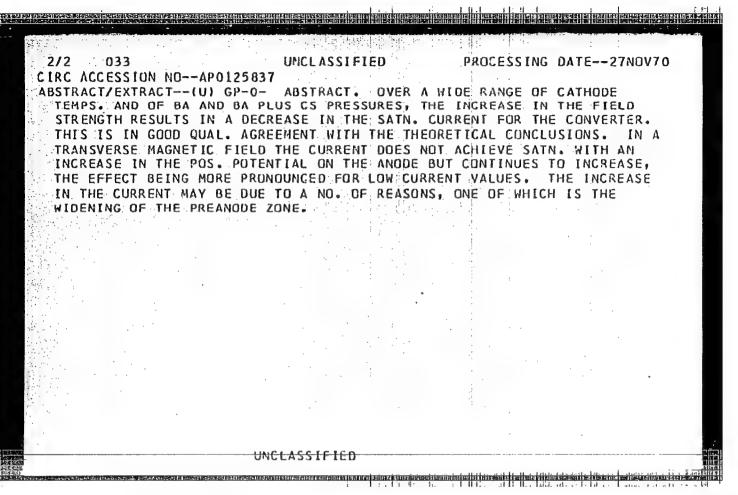
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2259

STEP NO--UR/0057/70/040/003/0561/0566

CIRC ACCESSION NO--APO125837

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200310004-9"



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WDC 542.91+661.718.1

BARABASH. N. D., DZHUNDUBAYEV, K. D., PORTNOVA, G. V., and KOZHAKHMETOVA, R. I., Institute of Organic Chemistry, Academy of Sciences Kirgiz SSR

"Synthesis of New Ammonium Salts of Derivatives of Phosphonic Acids"

Frunze, Izvestiya Akademii Nauk Kirgizskoy SSR, No 2, Mar-Apr 72, pp 61-62

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Abstract; On reacting the aminophosphonate (EtO)₂P(=O)-CH-NEt₂ (I) with alkyl halides RX in a sealed tube for 3-5 hrs at 110-15°, 0,0-diethylphos
phonoethyl (N,N,R-diethylalkyl)ammonium halides /(EtO)₂P(=O)-CH-NEt₂/X (II)

with R=Et, X=Br (d²⁰ 1.1700, n²⁰ 1.4660); R=Pr, X=Br (d²⁰ 1.1654, n²⁰ 1.4800); R=Pr, X=I (d²⁰ 1.2460, n²⁰ 1.4804); and R=Am, X=Br (d²⁰ 1.0986, n²⁰ 1.4565) were obtained in the form of thick oils that crystallized on standing. I was prepared by the methods described by E. K. Filds (Fields?/, J. Am. Chem. Soc., 74, 1528, 1952, and G. M. Kozolapoff, J. Am. Chem. Soc., 70, 1971, 1948. The newly synthesized compounds II are of interest because many phosphonylammonium halides exhibit physiological activity to a greater

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200310004-9"

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BARABASH, N. D., et al., Izvestiya Akademii Nauk Kirgizskoy SSR, No 2, Mar-Apr 72, pp 61-62

or lesser extent (cf. N. N. Mel'nikov, "Khimiya Pretitsidov" - Chemistry of Pesticides -, Khimiya, Moscow, 1968, and USSR Author's Cert. 179315, Byull. Izobret., No 5, 1966). The work described is a continuation of research in an earlier stage of which (Barabash et al., Izv. AN Kirgiz, SSR, No 1, 1972) some phosphorylammonium halide analogs were synthesized.

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RAPARASH, N. D., DZHUNDUBAYEV, K. D., KOZHAKHMETOVA, R. I., and PORTNOVA, G. V., Institute of Organic Chemistry, Academy of Sciences Kirgiz SSR

"Synthesis of 0,0-Diethylethylphosphonyl/N,N-diethylaryl(alkyl)/ammonium Halides"

Frunze, Izvestiya Akademii Nauk Kirgizskoy SSR, No 1, Jan-Feb 72, p 60

Abstract: 0.0-Diethylethylphosphonyl/N,N,N-diethylaryl(alkyl)/ammonium halides (II) were prepared by the reaction $(RO)_2P(=0)CHNR_2$ (I) + R''X \rightarrow /(RO)₂

P(=0)CHN $\stackrel{R_2}{\nearrow}$ /X (II), where R = Et, R' = Me, R'' is CH₂ Ph or Bu, and X = Cl,

Br. I. Compounds I were synthesized by known methods. Substances II may be of value as antihelmintics, because salts of quaternary ammonium bases exhibit a wide range of activity of this type. Introduction of a phosphoric acid ester residue will presumably increase the physiological activity of compounds of this class.

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- 68 -

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PRIMARY SOURCE: Patologicheskaya Fiziologiya'i Eksperimental'- naya Terapiya, 1969, Vol 13, Nr 5, pp 57-69

THE INFLUENCE OF INCISOR AMPUTATIONS UPON THE ADRENAL GLANDS OF NORMAL, HYPOPHYSECTOMIZED AND SIALADENECTOMIZED RATS

R D Barabash

Rats of Wistar strain were subjected to repeated incisor amputations, which brought about submaxillary hypertrophy and increase of their endocrine function. These experiments demonstrated that disturbances of the salivary gland function led to a distinct derangement of adrenal response to stress conditions. It was shown in experiments with hypophysectomized rats that, besides the main, mediated through the hypophysis, effect, there exists a direct influence of the salivary glands upon the adrenal cortex. It was also revealed that the normal hypophysis and salivary gland activity is required for acceleration of the incisor growth after repeated amputations; however, sallivary glands retain their capacity to intensify the teeth growth and regeneration after hypophysectomy.

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UDC 616.89-02.615.285.7.099

BARABASH, V. I.

"Neurologic and Hental Disorders in Chlorophos Poisoning"

Moscow, Zhurnal Nevropatologii i Psikhiatrii imeni S. S. Korsakov, No 4, 1971, pp 594-598

Abstract: Study of 82 patients who ingested from 50 to 200 g of the organophosphorus insecticide chlorophos accidentally or with suicidal intent showed
that the acute period of intoxication was marked by general weakness, headaches, nausea, gastric pains, absence of the pupillary reflex to light along
with pronounced inhibition, indifference to surroundings, hallucinations,
motor restleness, and, in severe, cases, maniacal tendencies, delirium, and
epileptiform seizures. After about a week the psychotic disorders gave way
to pronounced asthenia with a weakening of memory and intellectural capacity.
Autonomic-vascular disturbances (acrocyanosis, instability of arterial
pressure, spells of tachycardia) appeared in a number of patients along with
polyneuritis of varying degrees of severity. The considerable diversity of
symptoms and mode of manifestation reflected wide differences in the personality traits of the patients.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200310004-9"

1/2 018 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--A METHOD OF DETERMINING THE TRUE HEIGHT OF REFLECTION IN THE CASE
OF OBLIQUE INCIDENCE -UAUTHOR--BARABASHOV. B.G.

COUNTRY OF INFO--USSR

SOURCE--GEOMAGNETIZM I AERONOMIIA, VOL. 10, NO. 2, 1970, P. 348-350

DATE PUBLISHED ---- 70

SUBJECT AREAS--ATMOSPHERIC SCIENCES, EARTH SCIENCES AND OCEANOGRAPHY

TOPIC TAGS--VERTICAL SOUNDING, REFLECTED SIGNAL, ERROR, ATMOSPHERIC SOUNDING

CONTROL MARKING--NO RESTRICTIONS

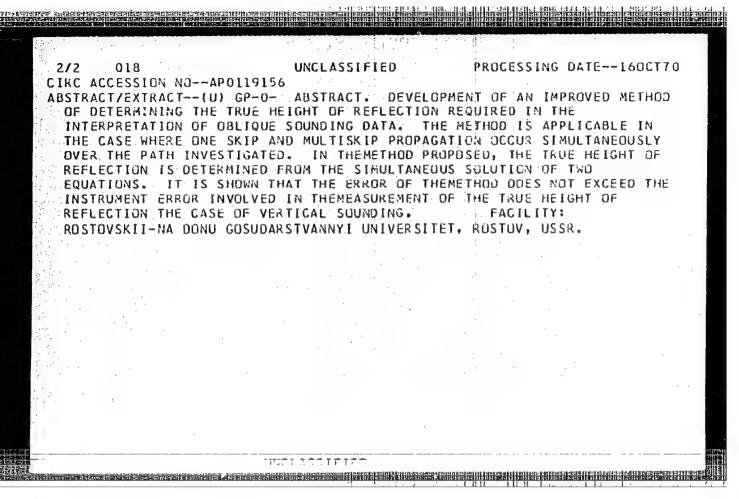
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0160

STEP NO--UR/0203/70/010/002/0348/0350

CIRC ACCESSION NO--APOII9156

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200310004-9"



1/2 022 UNCLASSIFIED PROCESSING DATE--11DECTO
TITLE--METHODS OF DETERMINING THE SMOOTHNESS FACTOR OF PLANETARY SURFACES

AUTHUR--EAKABASHOV. N.P.

COUNTRY OF INFO--USSR

SOURCE--ASTRONOMICHESKII VESTNIK, VOL. 4, APR.-JUNE 1970, P. 96-101

DATE PUBLISHED ---- 70

SUBJECT AREAS -- ASTRONOMY, ASTROPHYSICS

TOPIC TAGS-PLANETARY SURFACE, MARS PLANET, LEAST SQUARE METHOD, TELESCOPE

CENTREL MARKING--HO RESTRICTIONS:

DOCUMENT CLASS--UNCLASSIFIED PRUXY FICHE NO---FD70/605013/C10 STEP NO---UR/0454/70/004/000/0096/0101

CIRC ACCESSION NG--APC140382

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200310004-9"

2/2 022 UNCLASSIFIED: PROCESSING DATE--11DEC70 CIRC ACCESSION NO--APO140382 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CRITICAL EVALUATION OF THREE EXISTING METHODS OF DETERMINING THE SMOOTHNESS FACTOR OF THE SURFACES OF COSMIC BODIES. ONE METHOD IS BASED ON SOLVING (BY THE METHOD OF LEAST SQUARES) A SYSTEM OF EQUATIONS IN LOGARITHMIC FORM WHICH DESCRIBES THE BRIGHTNESS DISTRIBUTION ACROSS THE PLANETARY DISK AS A FUNCTION OF THE ANGLE OF INCIDENCE. THE SECOND METHOD MAKES USE OF A FORMULA DESCRIBING THE MAGNITUDE OF MARS IN RED LIGHT DURING OPPOSITION, WHILE THE THIRD METHOD IS BASED ON COMPARING THE OBSERVED PHASE CURVE OF A PLANET WITH TWO THEORETICAL OR EXPERIMENTAL PHASE CURVES FOR TWO SPHERES WITH GIVEN SMUCTHNESS FACTORS, ONE OF WHICH IS ROUGHER AND THE OTHER SMOOTHER THAN THE EXPECTED FACTOR. THE ADVANTAGES AND DRAWBACKS OF EACH METHOD ARE EXAMINED. SHOWING THAT NONE OF THEM APPROACHES THE RELIABILITY OF VISUAL OBSERVATIONS WITH POWERFUL TELESCOPES AND IMAGE QUALITY CONTROL. FACILITY: KHAR KUVSKII GOSUDAR STVENNYI UNIVERSITET, KHARKOV, UKRAINIAN SSR. UNCLASSIFIED

JNCLASSIFIED | PROCESSING DATE-- 18SEP70 TITLE--GENESIS OF ABSORPTION SPECTRA OF BENZENE DERIVATIVES CONTAINING N. TWO, DONOR AND N. TWO, ACCEPTOR CONTRA SYSTEMS -U-AUTHOR-(03)-BARABASHOVA, G.D., IZMAYLSKIY, V.A., MILLIARESI, YE.YE.

COUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSR 1970, 190(1), 95-8 (CHEM)

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ABSORPTION SPECTRUM, BENZOIC ACID, ISOMER, ANILINE

CONTROL MARKING--NO RESTRICTIONS

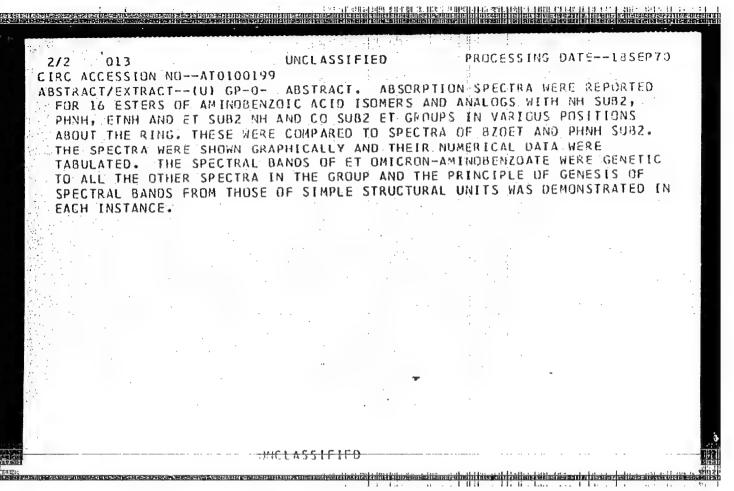
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/1581

STEP NO--UR/0020/70/190/001/0095/0098

CIRC ACCESSION NO--ATO100199

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WDC 621.357.13.669.28

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BARABOSHKIN. A. N., SALITIKOVA, N. A., TALANOVA, M. I., and MARTEM YANOVA, Z. S.

"The Structure of Continuous Deposits of Molybdenum Obtained from the Electrolysis of the Melt KCl-K3MoCl6"

Tr. In-ta elektrokhimii. Ural'sk. nauch. tsentr AN SSR (Works of the Institute of Electrochemistry. Ural Scientific Center, Academy of Sciences USSR), Vyp 18, 1972, pp 87-93 (from Referativnyy Zhurnal -- Khimiya, No 8(II), 1973, Abstract No 8L344 by B. B. Grinina)

Abstract: A study was made of the influence of the electrolysis parameters on the structure of the continuous deposition of Mo prepared from a melt containing KCl and K3MoCl6. The electrolysis was carried out under an atmosphere of argon. The precipitate was studied metallagraphically and by x-ray analysis. The thickness was determined from the increase in weight. The radial texture by the ARKHAROV method. The feasibility was demonstrated for preparing deposits of high purity Ho having a thickness of a new mm from strictly chloride melts. For this, it is necessary to use high purity salts as a starting material and high purity inert gas to separate the anolyte from the catholyte. A number of materials, such as graphite, W, Pt, Sr, Pd, Au, Ha, Fe, Ni, and Ag, may be used for the cathode and strongly cohesive

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BARABOSHKIN, A. N., et al., Tr. In-ta elektrokhimii. Ural'sk. nauch. tsentr AN SSR, Vyp 18, 1972, pp 87-93

precipitates may be obtained from chloride oxide melts. The texture of the growth is type 3. It is produced by relatively high rates of growth of the grain having orientation of III perpendicular to the substrate such that it is actually related to it by a twin structure.

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UDC 621.357.13:669.26

TARASOVA, K. P., BARABOSHKIN. A. N., and NAZROV, V. A.

"Obtaining Chrome Films by Electrolysis of Chloride Melts. III. The Influence of the Cathode Composition and Temperature on the Structure of the Deposits"

Tr. In-ta elektrokhimii, Ural'sk. nauch. tsentr AM SSR (Works of the Institute of Electrochemistry. Ual Scientfic Center, Academy of Sciences USSR), Vyp 18, 1972, pp 94-98 (from Referativnyy Zhurnal -- Khimiya, No 8(II), 1973, Abstract No 8L345 by V. V. Grinina)

Translation: A study was made of the change in the structure of chrome films during the change in temperature and the cathode composition of the melt solvent. The melts studied were composed of alkali chlorides at a temperature of 800° , containing 2 mole % CrGl₂ at a D_k of 0.05 amps/cm². Compact

films were obtained having a columnar structure and the coarseness of the crystals decreased in the order LiCl-NaCl-KCl-CsCl. During the precipitation of Cr from the melt 3LiCl-2KCl-CrCl₂, the coarseness of the grain increased with an increase in the temperature from 400 to 800°. At the lower temperatures the adhesion of the film to the base was reduced and it was evident that there was no alloy formation between the Cr and metals of the base.

Electrochemistry

USSR

UDC 621.357.13.035.21661.879.1.22

PUZAKOV, V. V., BARABOSHKIN. A. N., and KALIYEV, K. A., and TARASOVA, K. P.

"Mechanism for the Growth Hemispherical Precipitates of Uranium Dioxide on the End of the Electrode"

Tr. In-ta elektrokhimii, Ural'sk. nauch. tsentr AN SSSR (Works of the Institute of Electrochemistry. Ural Scientific Center, Academy of Sciences, USSR), Vyp 18, 1972, pp 99-105 (from Referativnyy Zhurnal -- Khimiya, No 8(II), 1973, Abstract No 8L346 V. V. Grinina)

Translation: The hypothesis mentioned earlier that hemispherical shape of precipitates of ${\rm UO_2}$ formed on the ends of Pt microcathode in LiCl-KCl-UO₂-Cl₂ melt at ${\rm 400^{\circ}}$ was caused by a particular relationship of the specific elec-

melt at 400° was caused by a particular relationship of the specific electrical resistance of the cathode, the precipitate, and the melt. The specific and effective electrical resistances of the melt and the electrolytic UO2

were compared as were the calculated and experimental forms of the precipitate on the end of the cathode. Measurements by electrical conductivity were carried out in an atmosphere of argon by the contact method, using a bridge to carry a current having a frequency of 5000 Hz from room temperature to 6000. The electrical conductivity of UO₂ was measured directly in the melt, 1/2

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PUZAKOV, V. V., et al., Tr. In-ta elektrokhimii. Ural'sk. nauch. tsentr AN SSSR, Vyp 18, 1972, pp 99-105

during the growth of the precipitate. A timed potentionetric method was used in the calculation of the electrical conductivity of the alloy to determine the diffusion coefficients of the uranyl ion in the pectic mixture LiCl-KCl. It was shown that the specific electrical conductivity of ${\rm UO}_2$

was half an order of magnitude smaller than the effective electrical conductivity and two orders of magnitude smaller than the specific electrical conductivity of the melt. The theoretically calculated value of the form of the precipitate was close to that observed experimenally. The precipitate had a hemispherical form.

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UDC 621.357.7:669.268

TARASOVA, K. P., BARABOSHKIN, A. N., MARTEM'YANOVA, Z. S.

"Influence of Complex Formation on the Structure of Chromium Sediments"

Tr. In-ta Elektrokhimii. Ural'sk. Nauch. Tsentr. AN SSSR [Works of the Institute of Electrochemistry, Ural's Scientific Center, Acad. Sci. USSR], No 17, 1971, pp 118-123 (Translated from Referativnyy Zhurnal, Khimiya, No 3, 1972, Abstract No 3 L312 by V. V. Grinina).

Translation: The influence of the F ion on the structure of Cr sediments produced by electrolysis of chloride-fluoride and fluoride melts was studied. Increasing the F/Cr ratio to 10 caused a decrease in grain size in the sediment. Further increases in fluoride concentration in the electrolyte had no significant influence on crystal size. Compact sediments, well bonded to bases of Cu, Ni, Mo, Nb, alloys VN-2 and VN-3 were produced at temperatures of 700-900° and D = $0.01-0.1~a/cm^2$ in melts containing 5-20 wt.% K hexafluoro-chromate (K_3 CrF₆). As the content of the F ion in the melt increased, the grain of the sediment was primarily oriented with the <100> direction perpendicular to the plane of the substrate. The quality of the texture increased

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1/2 017 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--PASSIVATION OF CATHODIC PRECIPITATES OF URANIUM DIOXIDE IN CHLORIDE
MELTS -U-

AUTHOR-(03)-BARABOSHKIN. A.N., KALIYEV, K.A., TARASOVA, K.P.

COUNTRY OF INFO--USSR

SOURCE--ELEKTROKHIMIYA 1970, 6(1), 146-9

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-MOLTEN CHLORIDE, ELECTRODE PROPERTY, CHLORIDE ELECTROLYSIS, METAL PASSIVATION, OXIDE FILM, URANIUM OXIDE

CONTROL MARKING--NO RESTRICTIONS

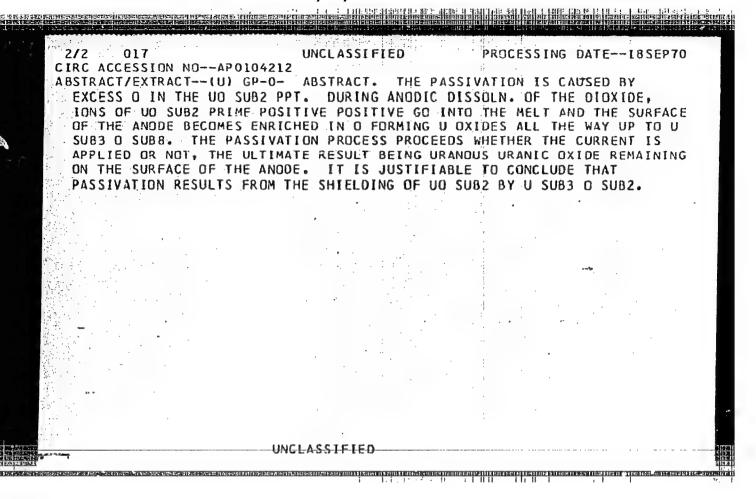
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1987/0766

STEP ND--UR/0364/70/006/001/0146/0149

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CIRC ACCESSION NO--APO104212

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	BARABOY, V. A., and KIRICHINSKIY, B. R., Yadernyye Izlucheniya i Zhizn', Moscow, Nauka Press, 1972, 232 pp								
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CHEBOTAR OV, E. Yu., Doctor of Medical Sciences, GRODZINS'KIY, D. M., Doctor of Biological Sciences, BARABOY, V. A., Candidate of Medical Sciences, and KIRICHINS'KIY, B. R., Candidate of Legal Sciences

"Radiobiology in the Ukraine"

Kiev, Vestnik Akademii Nauk Ukrainskoy SSR, No 9, Sep 70, pp 48-52

Abstract: A survey is presented of the leading Ukrainian research institutes and the achievements of the major Ukrainian scientists. Ukrainian radiobiologists are conducting a wide variety of investigations on a high scientific and methodological level. Fundamental contributions are being made to such important problems as the biological effects of fast neutrons; mechanisms of radioprotection of animals and plants; repair of lesions caused by radiation; migration, incorporation, and effects of natural and artificial radioactive isotopes; and primary mechanisms of the injurious effects of ionizing radiation on biopolymors, mainly proteins. Extensive use is being made of radiospectroscopy, X-ray diffraction analysis, gas chromatography, and physicochemical studies of model systems.

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UDC 576-895.4

MULYARSKAYA, L. V., KOROBEYNIKOVA, A. S., and BARAGAMOVA, E. S.,

"Small Mammals as Hosts of Trombiculid (Acariformes, Trombiculidae) in the Lesser Caucasus"

Baku, Izvestiya Akademii Nauk Azerbaydzhanskoy SSR, Seriya Biologicheskikh Nauk, No 1, 1971, pp 95-101

Abstract: During 1963-66 the Institute of Zoology, Academy of Sciences Azerbaydzhan SSR, and the Azerbaydzhan Antiplague Station carried out a study of the species composition of small mammals harboring Trombiculid mites in the Lesser Caucases, the species composition of the mites infesting small mammals there, the degree of infestation of the mammals of different species with the mites, and seasonal variations in the degree of infestation. The results are summarized in the form of tables. Trombiculid mites are of importance as vectors of rickettsioses. The principal hosts of the mitos were rodents of several species (gerbils, voles, and the house mouse). The considerable degree of infestation of the house mouse with Trombiculid mites is of interest, because house mice were found to be infested to only a slight degree or not at all in other regions of the Caucases.

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UDC 614.445(497.24):576.851

BARAGAMOVA, E. YE., ZAKUTINSKAYA, N. A., HAMEDZADE, A. U., Candidate of Hadical Sciences, MAMEDOVA, S. A., and MEDVEDEVA, E. P., Azerbaydzhan Antiplague Station

"The Vibrio Content in Rivers and Some Open Water Basins Bordering on Azerbaydzhan," (Report One)

Baku, Azerbaydzhanskiy Meditsinskiy Zhurnal, No 5, May71, pp 50-53

Abstract: A study was made of the vibrioflora (particularly cholera vibrios) of the Araks river, Apsheronskiy canal, and Caspian sea, all waters bordering on Iran and long known as an epidemiological focus of cholera, from which the disease frequently spread to Russia. During the years 1967-1968 samples gathered from the waters of the Araks river, Apsheronskiy canal, and Caspian Sea contained 96, 197, and 146 different types of vibrios comprising six groups (Heiberg's classification). Most types were obtained in the months between May and October. Most numerous and epidemiologically interesting were the vibrios in group one, which included also the El Tro Ogawa serotype. Of the vibrios in this group, 18-18.7% of the total number of vibrios gathered from the waters of Raks river and the canal and 8.9% of those gathered from the Caspian Sea were agglutinated by cholera 0 serum in different 1/2

USSR

BABAGAMOVA, E. YE., et al., Azerbaydzhanskiy Meditsinskiy Zhurnal, No 5, May 71, pp 50-53

dilutions. On the basis of Heiberg's classification the vibrios gathered from Araks river were grouped as follows: group I contained 29.2%, group II -- 23.6%, group III -- 2.2%, group IV -- 14.6%, group V -- 1.2%, and group VI -- 29.2%; from Apsheronskiy canal: group I -- 52.3%, group II -- 33%, group III -- 1.5%, group IV -- 0.5%, group V -- 1.5%, and VI -- 11.2%; from Caspian Sea: group I -- 51.4%, group II -- 12.3%, group III -- 4.7%, group V -- 13%; group VI -- 18.6%. No group IV vibrios were found in the Caspian Sea. The medical and sanitary workers of Azerbaydzhan SSR have been warned that the presence of El Tor and other vibrios which are agglutinated by cholera 0 serum presents a constant threat of a cholera epidemic outbreak, and that at all times the necessary prophylactic measures should be enforced.

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UDC 621.43

BUSHANSKAYA, L. I., Candidate of Technical Sciences, and BARAKAN, G. H., Engineer

"Results of the Experimental Investigation of the Characteristics of Free-Moving Piston Gas Generators Under Transitional Operating Conditions"

(Article presented by Doctor of Technical Sciences A. S. Orlin, Professor at the Moscow Higher Technical School imeni N. E. Bauman)

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy. Mashinostroyeniye, No 3, 1972, pp 91-96

Abstract: Results of an experimental investigation of the performance of a free-moving piston gas generator (FMPGG) in transitional processes are analyzed with a view to velue its dynamic properties. The process in the bounce cylinder and the main characteristics of the transitional process by throwing on and throwing down the load within the power interval controlled by means of changing the fuel supply are discussed by reference to diagrams.

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BUSHANSKAYA, L. I., Izvestiya Vysshikh Uchebnykh Zavedeniy, Mashinostroyeniye, No 3, 1972, pp 91-96

The effects of quick-acting of the stabilizer and the capacity of the exhaust system on the generator response are rated. The formula for determining the capacity of the bounce hollow by different piston positions of the FMPGG model has been specified. The following were found to represent efficient means to improve the characteristics of the FMPGG transitional process: the most possible capacity decrease of gas communications; the use of control facilities of the turbine input-output characteristic during load shifting; the use of an additional filling control of the bounce cylinder in transitional processes. Three illustr., two biblio. refs.

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SHAKHNAZAROV, YU. V., ANISIMOVA, M. S., BARAKHTIN, B. K., and SHUL'MAN, V. M., Leningrad

"The Stabilization of Austenite with Inverse Conversion in Cr-Co-No and Cr-Ni-Co-Mo Steels"

Moscow, Izvestiya Akademii Nauk SSSR, Metally, No 2, Mar-Apr 73, pp 160-163

Abstract: The stabilization of austenite was investigated with inverse conversion in Khi5Ki9H3 steel not containing Ni, and in Ni-containing Kh14K14N4N3 steel, both smelted in one-ton vacuum arc furnaces. The effect of the aging temperature on characteristic factors as the quantity of residual austenite, electric resistance, period of & -phase lattice, impact ductility, and hardness, is discussed by reference to diagrams. The lowered according to the shifting mechanism, indicate a low contribution of phasal peening to the stabilization effect. The maximum stability results with the development of for a conversion, which becomes possible by a significant redistribution of elements. Considering the increased solubility of No in martensite at decreasing Co content, it can be assumed that the stabilization of austenite in steel not containing hi is in presence of Cr, determined by &-phase concentration with Co. Three figures, eight bibliographic references. 1/1

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USSR

BARAKOV, Yu. P.

"Problems of Providing Queuing Information"

Moscow, Nauchno-Tekhnicheskaya Informatsiya: Seriya 1 - Organizatsiya i Metodika Informatsionnoy Raboty; July, 1972; pp 3-12

ABSTRACT: Using the example of the Vladivostok Scaport Information Service, the author made a study of the general problems of optimal mass information of a queuing nature. Based on the objective factors shaping the informational requirements, a consumer differentiation was obtained. The factors considered in the differentiation are, in part, the type, character, and content of the consumer's activities.

By means of diagrams of the informational status of scientific and technical development the nature and essence of the informational requirements are presented and classified. A description is given of the characteristics of constant informational requirements which are satisfied by the provision of current information.

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